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MISCELLANEOUS.

I.—*Additions to Orography.* Communicated by Professor CHAIX, of Geneva.

	Height above the Sea.	
	Metres and Decimetres.	English Feet.
Island and Castle of If, 3300 metres W.S.W. from Fort St. Nicolas at Marseille	48.	157
Island of Ratoneau (highest point) 4500m. W. by S.	88.	289
„ Pomegues (h. p.) 4800m. W.S.W.	95.	312
Fort Notre Dame de la Garde, 1000m. S.E.	103.	338
Village of St. Barnabé, 4800m. E.N.E.	88.	289
La Viste, village on the road to Aix, 7400m. N.	129.	423
Mountain de l'Estaque (aux 13 vents) 9000m. N.N.W.	282.	925
Chateau Gombert, 9200m. N.E.	136.	446
Collet Bedon (hill) 1000m. W. from Chateau Gombert	220.	722
Montagne de l'Etoile, 12,300m. N.N.E. from Fort St. Nicolas	595.	1952
Marseille Veire (mountain) 7600m. S.	467.	1532
Baume de Roland (grotto on the northern slope of Marseille Veire)	152.	508
Montagne de Luminy, 10,000m. S.E.	325.	1066
Mont Puget, 10,600m. S.E.	633.	2077
Montagne de la Gineste, 9200m. E. by S.	355.	1164
Montagnes de la Gardiole, 12,200m. E. by S.	548.	1797
„ de St. Cyr, 9000m. E.S.E.	659.	2162
„ de Carpiagne, 10,600m. E.S.E.	512.	680
Ste. Croix, St. Trone, (hill) 6800m. E.S.E.	310.	1017
[These heights were ascertained barometrically by Mr. Chaix, and found to correspond very closely with the results obtained trigonometrically; but as whenever there is a difference, however slight, the preference should be given to the results of the exacter method, the above are from the cadastral plan of the commune of Marseille. The distances are taken from Fort St. Nicolas, at Marseille.]		
<i>Heights of some of the Lakes of Switzerland, trigonometrically obtained by Eschmann and others.</i>		
Lake of Geneva (according to the French engineers) above the sea	375.	1230
„ of Constance	395.9	1299
„ of Zurich	406.1	1332
„ of Zug	415.	1361
„ of Lucerne	435.5	1430
„ Greiffensee (Canton of Zurich)	436.7	1433
„ of Lauerz (Cn. of Schwytz)	448.6	1466
„ of Hallwyl (Cn. of Argovia)	450.8	1450
„ of Baldegg (Cn. of Lucerne)	465.7	1529
„ of Sarnen (Cn. of Unterwald)	471.4	1545
„ of Sempach (Cn. of Lucerne)	505.5	1660
„ of Pfäeffikon (Cn. of Zurich)	538.3	1765
„ of Lungern (Cn. of Unterwald), since the works which have sunk its level	657.7	2159
„ of Aegeri (Cn. of Zug)	726.5	2385

<i>Heights barometrically obtained by Mr. Chaix in Savoy and Dauphiny.</i>	Height above the Sea.	
	Metres and Decimetres.	English Feet.
N.B.—The inferior station was the observatory at Geneva, 407m., or 1335 feet above the level of the sea.		
Pont de Tréville, on the Menoge, between Geneva and Bonneville	444·5	1460
The Arve at Bonneville	434·5	1427
Pont de Cornillon, or de Rumilly, on the Borne, $1\frac{1}{2}$ league S. of Bonneville	491·	1611
La Croix de le Braz, northern entrance to the valley of the Little Bornand	742·6	2438
Termine, hamlet in the valley of the Little Bornand	692·2	1270
Sasiaz, ditto	685·2	2247
Village of Little Bornand (10 feet French above the soil), mean of a series of observations giving very nearly the same result each	802·0	2631
„ mean of a second series of observations, corresponding equally with each other	722·6	2372
Puse, hamlet, to the E. of, and close to the Little Bornand	923·2	3028
Char de Crème (at its entrance), a coal-mine in the mountain, E. of Little Bornand	1094·4	3589
Lake of Lessy, at the foot of the Needles of the mountains of Vergy	1688·5	5538
Granges de Lessy (Chalets), near the small lake of Lessy	1753·5	5578
Aiguille de Domingy, to the S. of lake Lessy, the 5th and last of the peaks of Vergy	2044·5	6707
Boitons (Petites Granges) sur Villard, above Little Bornand	1312·1	4305
Col de Cliave (Mountains of Vergy) at the cross	1602·1	5256
Bottom of the desert valley of Somet, between the base of the peak of Jalouvre and peak or Aiguille Blanche	1762·2	5781
Aiguille de Jalouvre, the 3rd of the Mountains of Vergy	2387·6	7835
[“ My brother and I,” says Mr. Chaix, “ are the first Swiss who have set foot on this peak (13th October, 1839), and the dangers to which the ascent exposed us were such as to make it probable that we shall have but few imitators.”]		
Col de Tovire, between the Reposoir and the Great Bornand	1606·	5269
Portes de Naves, defile at the bottom of the valley of the Reposoir	895·6	2939
Cluses, the town of, from a 2nd story	491·5	1614
Bourg d'Oysans (Département de l'Isère), level of the soil at the posthouse	740·	2428
„ a mean of 4 other observations, less certain	758·	2487
Vizille (Département de l'Isère), pavement of the town	281·1	1922
„ at the level of the Romanche, under the bridge	257·7	846
Fort de Barraux (Isère), on the road in front of the fort	343·1	1125
Chapareillan, at the French custom-house, frontier of Savoy	292·3	958
Chambery, at the 1st story of the Hotel de la Poste, mean of 3 observations	277·2	909
Alby (Savoy), parapet of the bridge on the Cheran	402·2	1319
Pont de la Caille, new suspension-bridge over the torrent of Usses between Annecy and Geneva	656·6	2156
Montenvers, at the pavilion	1930·2	6234
Caillet, asbestos grotto, halfway between Chamouny and Montenvers	1490·6	4892
Saint Gervais les Bains, in Faucigny, at the level of the torrent of Bonnant, mean of 7 observations	621·	2037
Bionnay, village near St. Gervais	954·6	3133
Saint Nicolas de Verosse, ditto	1045·9	3432
Mégève, ditto	1116·5	3665
Flumet	922·5	3028
St. Pierre d'Albigny (Savoy, valley of the Isère)	433·6	1424
Montmélian	325·8	1070
Pontchara, frontier of France	267·1	876
Moutaret, hamlet between Pontchara and Allevard	580·4	1903
Allevard, highest point of the road from Allevard to Pinsot	733·0	2405
Allevard, Hôtel des Bains, 1st floor, mean of 5 observations	482·5	1585
Chapelle du Bar, village N. of Allevard	449·5	4761

	Height above the Sea	
	Metres and Decimetres	English Feet.
Montgarrin, highest point on the road from Montgarrin to Pont du Diable	757·7	2487
Pont du Diable, on the Beins, frontier of France and Savoy	668·9	2195
Saint Hugon, Chartreuse, 1st floor	792·5	2602
" Forges, $\frac{1}{2}$ league to the S.E. of the Convent, on the Beins	810·2	2658
Lake of Saint Clair, between Arvillard and La Rochette, in Savoy	355·1	1165
Grenoble, mean of several obs., 3d story of the Hôtel of the Three Dolphins	252·6	830
" Citadelle inférieure, at the Cantine	322·5	1060
" Summit of Citadel or upper Bastille	498·	1634
Petit Salève, mountain near Geneva, Savoy (summit)	900·2	2953
Mornex, village of the Petit Salève, à l'Hôtel de la Grenade (m. of 3 obs.)	566·5	1860
Monetier, au Chateau des Grottes, on the Petit Salève	701·3	2300
Etrambières, at the level of the Arve	413·6	1358
Begnins, village near Nyon (Vaud) à la Cure, mean of 2 observations	521·8	1713
Luing, village near Begnins	474·2	1155
Celigny (Canton of Geneva), at the terrace Bernard	409·6	1355

	Heights estimated by corresponding Observations made			
	at Marseilles.		at Geneva.	
	Metres.	English Feet.	Metres.	English Feet.
Observatory of Marseille (Reservoir of Barom.), deduced from levels	46·6	154		
Fort Notre Dame de la Garde (Marseille), the platform at foot of signal-post (mean of two observations)	133·5	440		
Aix (in Provence), foot of the cross	173·5	571		
Peyrolles (Dépt. du Rhone), the post-house	131·2	430		
Mirabeau (Dépt. de Vaucluse), village near the Durance; level of the road	248·4	814		
Manosque (Dépt. des B. Alpes), first story of the Hôtel des Alpes	396·9	1303		
Ditto. Second observation	396·1	1299		
Peyruis (Dépt. des B. Alpes), the post-house	412·2	1352		
Varneyron (Tile-works of), on the old road, at the highest point of the Mountain de la Combe, to the N. of Peyruis	594·5	1952		
Gap, at the Café des Beaux Arts, elevated part of the town	753·2	2471	769·5	2526
Col de St. Guigues (highest point), between Gap and St. Bonnet (Dépt. des H. Alpes)	1272·5	4177	1272·8	4177
Corps (Dépt. de l'Isère), level of the street	945·3	3100	956·8	3140
Souchons, village (Dépt. de l'Isère), between Corps and La Mure, at the post-house (<i>doubtful</i>)	..	..	799·5	2624
Bonne (at the bridge), between Souchons and La Mure	..	..	622	2041
La Mure (Dépt. de l'Isère), first floor of the post-house	861·9	2828	884·3	2900
In my Map of Savoy, published in 1831, I gave from Friéville's Dictionary	869·3	2851		
Vergenaz (Dépt. de l'Isère), hamlet, half a league from La Mure, going towards the Anthracite mines of Pré de Chagnat	1034·1	3392	1057·5	3471
Lombin (Dépt. de l'Isère), in the Valley of Graisivaudan, on the road	..	..	244·5	804
Cerdon, bourg. (Dépt. d'Ain), at the post-house	..	..	311·1	1020

	Heights estimated by corresponding Observations made			
	at Marseilles.		at Geneva.	
	Metres.	English Feet.	Metres.	English Feet.
Cerdon, col du, between Cerdon and Nantua, highest point	607·6	1995
Nantua (Dépt. d'Ain), the street	495·9	1627
Bellegarde (Dépt. d'Ain), ground-floor of the Hôtel de la Perte du Rhone	352·1	1155
Wufflens (Cant. de Vaud), court-yard of the Chateau, near Morges	485	1591
Petit Sacconez, village (Cant. de Genève), highest point	441·8	1450
Pinchat, village (Cant. de Genève), $\frac{1}{4}$ of a league from Carouge, pavement at the house Gourdon	447	1467
Plongeon, village (Cant. de Genève), at the balcony of the house Archer, $\frac{1}{2}$ a league from Geneva; mean of two observations	391·6	1286
Piton, highest point of Mount Salève, Savoy, province of Carouge	1401·6	4600
Croisette, hamlet on Mount Salève, $\frac{3}{4}$ of a league N.E. of the Piton	1177·5	3865
Bellecombe, tower of, (Prov. of Carouge, Savoy,) parapet of the bridge over the Arve	451·5	1483
Pouilly, the house Châtrier, near the village of, (Faucigny)	527	1729
Pont de Trebille, on the Menoge, on the parapet (Faucigny, Savoy)	452·5	1486
Faucigny, chateau, platform of, (Prov. of Faucigny); mean of three observations	676·2	2218
Faucigny, village, near the chateau	659·5	2165
Albens, village, (Prov. de Genevois) between Aix and Annecy	356·1	1171
Douvaine, village, (Prov. de Chablais, Savoy,) post-house	443·2	1453
Allinges, at the top of the village, (Prov. of Chablais)	541·5	1778
Allinges, highest point of the platform of the Chateau des	716	2349
Bons, village of Chablais, in front of the inn	569·3	1867
Former observations, made with my friend Mr. Alph. de Candolle's barometer, and mentioned by him in his <i>Hypsométrie</i> , had given me for—				
The Chateau des Allinges	711·9	2336
The village of Bons	549·6	1804
The number 2672 feet (French), 868 metres, given in my map of Savoy, was taken from Keller's Map of Switzerland.				